

FABRICATION OF OPTICAL WAVEGUIDES
FOR REDUCTION OF MINIMUM WAVEGUIDE SPACING

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ABSTRACT OF THE DISCLOSURE

A fabrication method reduces minimum waveguide spacing in an integrated optical device. Core regions of the waveguides are etched into cladding material and then filled with core material, instead of etching the spacing between the core material first and then filling the spacing. This allows the spacing between the core regions to be made arbitrarily small, without being constrained by an aspect ratio associated with a conventional etch and deposition/re-flow process used to form waveguide spacings.

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